

PROJECT LOCATION

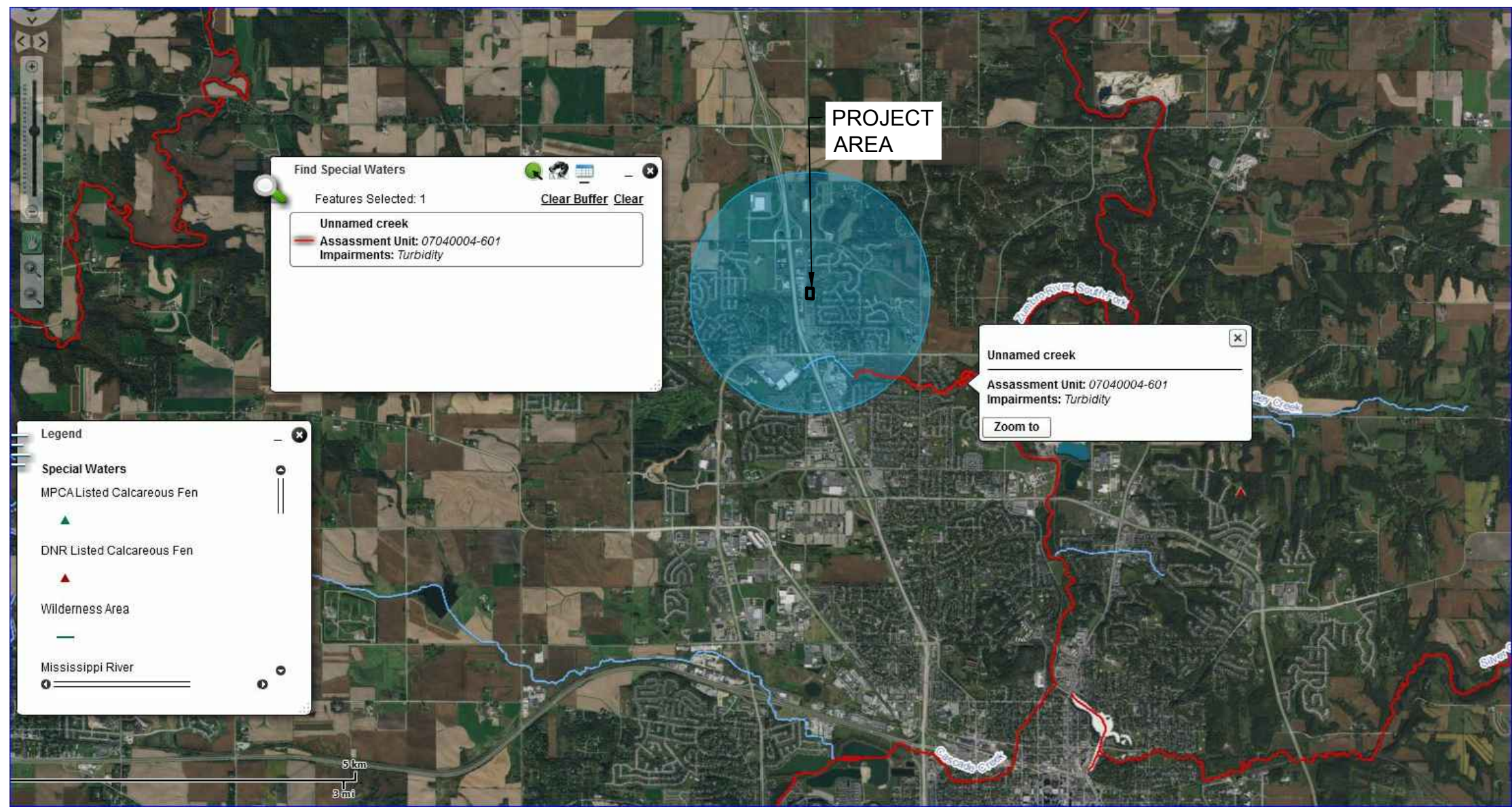
THE PROPOSED PROJECT IS LOCATED AT 5930 BANDEL ROAD NW IN ROCHESTER, MN 55901.

PROPOSED SITE DESCRIPTION

PROPOSED WORK WILL INCLUDE GRADING OF ATHLETIC FIELDS.

RECEIVING WATERS

WATER BODY	TYPE	SPECIAL WATER?	IMPAIRED WATER?	APPROVED TMDL?	POLLUTANT
UNNAMED CREEK AUID:07040004-601	CREEK	NO	YES	YES	TURBIDITY



DATES OF CONSTRUCTION

4/1/18 TO 12/31/18

CONTACT INFORMATION

OWNER:

MIDWEST BIBLE BAPTIST CHURCH

5930 BANDEL ROAD NW

ROCHESTER, MN 55902

CONTACT: PASTER CALEB HANSON

EMAIL: CALEBHANSON2005@GMAIL.COM

PHONE: (507) 259-4106

CONTRACTOR:

CONTACT:

EMAIL:

PHONE:

ESTIMATED EROSION PREVENTION AND SEDIMENT CONTROL QUANTITIES

SILT FENCE QUANTITY: 1,423 LF

EROSION CONTROL BLANKET (CAT 3) 9,747 SY

INLET CONTROL: 7 EACH

ROCK CONSTRUCTION ENTRANCE/EXIT 1 EACH

Unique Storm Water Management Features

There are no unique storm water management features proposed on site. Storm water discharge from the site follows existing flow patterns to existing City infrastructure.

TMDL Implementation Plans Containing Storm Water Requirements

A TMDL Implementation Plan currently exists for the receiving waters on the project.

Long Term Maintenance

Long term maintenance shall include maintaining the vegetated areas.

Erosion Control Supervisor Requirements

The Contractor must identify an Erosion Control Supervisor (ECS) who is knowledgeable and experienced in the application of erosion and sediment control Best Management Practices (BMP's). The ECS must work with the Contractor to oversee and implement the SWPPP, and the installation, inspection, and maintenance of erosion and sediment control BMP's before, during and after construction. The Contractor/ECS is required to comply with the training requirements in Part III.A of the NPDES Permit. The permittee(s) shall ensure that employees are properly trained in the following areas with certification proof provided at the pre-construction conference.

SWPPP Preparation:

Name: Joey Weiss

Dates of Training: January 30, 2018

Instructors Name providing Training: John Chapman

Content of Training (incl. hours): Design of Construction SWPPP Recertification(6 hours)

Site Manager:

Name: TBD

Dates of Training:

Instructors Name providing Training:

Content of Training (incl. hours):

BMP Installer:

Name: TBD

Dates of Training:

Instructors Name providing Training:

Content of Training (incl. hours):

The Contractor/ECS shall develop a chain of responsibility with all operators on the site to ensure that the SWPPP will be implemented and stay in effect until the project site has undergone Final Stabilization in accordance with Part IV.G of the NPDES Permit and a Notice of Termination (NOT) has been submitted to the MPCA in accordance with Part II.C of the NPDES Permit. The Contractor/ECS must routinely inspect the entire construction site at least once every seven days during active construction and within 24 hours after a rainfall event greater than 0.5 inch in 24 hours. The Contractor shall take action to eliminate any deficiencies found during these inspections and contact the MPCA if contaminated stormwater has reached any surface water. The Contractor must provide 2 rain gauges to be installed on the construction site. Inspections, maintenance and documentation must be in accordance with the NPDES Permit Part IV.E. See Part III.D of the NPDES Permit for record retention requirements. Copies of the inspection records are to be submitted to the Engineer.

The Contractor/ECS must amend the SWPPP as necessary to include additional requirements, such as additional or modified BMP's, designed to correct problems or address situations in accordance with Part III.A.5 of the NPDES Permit.

Individual Site Plans will be required by the E.C. Supervisor as deemed necessary. Refer to MnDot 1717.

A daily inspection log will be required by the E.C. Supervisor of all sediment, erosion and materials on site (ie: chemicals, etc.). This log shall be presented daily to the observer on site and kept current.

The E.C. Supervisor shall provide an inlet staging schedule and protection plan for the entire project. This plan and schedule shall be presented to the engineer at the pre-construction conference. Minimum requirements of the plan and schedule shall include:

- date of proposed inlet protection device installation
- protection device utilized
- estimated duration of device in operation
- schedule of subsequent devices that will be utilized for inlet protection

The contractor shall have a petroleum release plan and shall have all necessary materials on hand to implement the plan. All employees shall be trained in implementation of the plan. The MPCA shall be informed of any petroleum spills.

STORM WATER POLLUTION PREVENTION PLAN NOTES:

Temporary and Permanent Erosion Control Practices

BMP's proposed for temporary and permanent erosion control are shown on the on sheet C4.1 and are further identified as follows:

Temporary Erosion Control Methods

All disturbed soil areas shall be temporarily mulched with Type 1 mulch within 14 days if the area is not being actively worked. Temporary seed mix 22-111 at a rate of 100 lbs/ac will be used only in cases where disturbed soil areas are anticipated to remain unworked in excess of 14 days prior to placement of Type 1 mulch.

Permanent Erosion Control Methods

Permanent erosion control will be achieved by using Seed Mixture 35-241 at a rate of 36.5 lbs/ac, Type 1 Fertilizer with a composition of 0-10-20 at a rate of 350 lbs/ac, and Mulch Material Type 1 at 2 tons / acre on all disturbed construction areas.

Temporary Sediment Control Methods

Silt fence or windrowed topsoil will be used as the primary control. Biorolls will be used as secondary control at any areas of high velocity drainage to prevent sediment from draining off site. Rock construction entrances shall be placed at all locations construction vehicles will be exiting the project area.

Unique Environmental Concerns

The project site is located within one (1) mile radius of identified impaired streams/lakes. Per the NPDES Permit, the project must incorporate the additional BMP's found in Appendix A, parts C.1 and C.2.

Section. C.1, During Construction:

- Stabilization of all exposed soil areas must be initiated immediately to limit soil erosion but in no case completed later than seven (7) days after the construction activity in that portion of the site has temporarily or permanently cease
- Temporary sediment basin requirements described in Part III.C must be used for common drainage locations that serve an area with five (5) or more acres disturbed at one time.

Section C.2, Post Construction:

The water quality volume that must be retained on site by the project's permanent stormwater management system (as described in Part III.D) shall be one (1) inch of runoff from the new impervious surfaces created by the project.

Dewatering

It is not anticipated that dewatering will be required during construction.

Timing of BMP Installation

Erosion and sediment control BMP's must be installed as necessary to minimize erosion from disturbed surfaces and capture sediment onsite. All BMP's must conform to Part IV of the NPDES Permit.

Construction Sequencing

- Identify and label protection areas such as buffer zones, filter strips, trees, etc... - Complete prior to any land disturbing activities.
- Designate construction access / entrance, construction routes, equipment parking areas and cutting of vegetation - Stabilize disturbed area for the construction entrance immediately with aggregate.
- Install diversions, silt fence, perimeter dikes and inlet / outlet protection - Install key BMP's before commencing with grading operations. Install additional run-off control as necessary during grading operations.
- Begin grading operations - Begin grading after key BMP's are installed. Topsoil shall be stripped and stockpiled for the duration of the grading operations. Install BMP's around topsoil stockpile area(s) immediately following placement.
- Surface stabilization including temporary and permanent seeding and mulching - Apply temporary and/or permanent stabilization measures immediately on all disturbed areas where work is delayed or completed.
- Maintenance - Maintenance inspections shall be performed weekly, and maintenance repairs shall be made immediately after periods of rainfall and / or BMP failure.

Erosion Prevention Practices

The Contractor/ECS is responsible for the Erosion Prevention Practices contained in Part IV.B of the NPDES Permit. The Contractor/ECS must plan for and implement appropriate construction phasing, vegetative buffer strips, horizontal slope grading and other construction practices that minimize erosion. The location of areas not to be disturbed must be delineated (marked) on the development site before work begins.

All exposed soil areas must be stabilized as soon as possible to limit soil erosion but in no case later than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased.

The normal wetted perimeter of any temporary or permanent drainage ditch or swale that drains water from any portion of the construction site, or diverts water around the construction site, must be stabilized within 200 lineal feet from the property edge, or from the discharge into any surface water. Stabilization must be complete within 24 hours after connecting to surface water.

Pipe outlets must be provided with temporary or permanent energy dissipation within 24 hours after connection to a surface water.

Sediment Control Practices

The Contractor/ECS is responsible for the Sediment Control Practices contained in Part IV.C of the NPDES Permit. Sediment Control Practices must be installed on all down gradient perimeters before any upgradient land disturbing activities begin. There shall be no unbroken slope length greater than 75 feet for slopes with a grade of 3:1 or steeper. These practices must remain in place until Final Stabilization has been established in accordance with Part IV.G of the NPDES Permit.

The timing of installation of Sediment Control Practices may be adjusted to accommodate short-term activities such as clearing or grubbing, or passage of vehicles. Short-term activities must be completed as quickly as possible and the practices must be installed immediately after the activity is completed. However, the Sediment Control Practices must be installed before the next precipitation event even if the activity is not complete.

All storm drain inlets must be protected by appropriate BMP's during construction until all sources with potential for discharging to the inlet have been stabilized. Inlet protection may be removed if a specific safety concern has been identified and the procedure in Part IV.C.4 of the NPDES Permit is followed.

Temporary soil stockpiles must have super duty silt fence or other effective sediment controls, and cannot be placed in surface waters, including stormwater conveyances such as curb and gutter systems, or conduit and ditches unless there is a bypass for stormwater.

Vehicle tracking of sediment from the construction site must be minimized by BMP's such as stone or wood chip pads, concrete or steel wash racks, or equivalent systems. Street sweeping with collection must be used if such BMP's are not adequate to prevent sediment from being tracked onto the street (see Part IV.E.4.d of the NPDES Permit).

Dewatering related to the construction activity must comply with Part IV.D of the NPDES Permit. Dewatering discharge that may have turbid or sediment laden discharge must be discharged to a temporary or permanent sedimentation basin on the project site whenever possible and BMP's must be implemented to prevent water containing sediment or other pollutants from being discharged to a Water of the State.

Contractor may construct temporary sedimentation basins in accordance with Part III.B of the NPDES Permit.

Pollution Prevention:

Each contractor on site is individually responsible for maintaining a clean and safe work site. The person responsible shall dispose of all solid waste properly and in compliance with the MPCA disposal requirements. Solid waste includes but is not limited to: collected sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris. The person responsible shall be responsible for all hazardous materials during construction. Oil, gasoline, grease, paint and other hazardous substances must be properly stored, including secondary containment, to prevent spills, leaks and unwanted discharges. Restricted access to storage areas must be provided to prevent vandalism. Storage and disposal of hazardous waste must be in accordance with the MPCA regulations. External washing of trucks and other construction equipment is prohibited on this project site.

Concrete washout site: all liquid and solid wastes generated by concrete washout operations must be contained in a leak proof containment facility or impermeable liner. A compacted clay liner that does not allow washout liquids to enter the ground water is considered an impermeable liner. Another option to provide an impermeable basin in sandy soils is to construct a basin 18 inches deep with a minimum size of 12 feet by 14 feet. The basin should then be lined with a 10-mil poly liner that is secured on the perimeter. The liquid, solid wastes, and hand tools must not contact the ground, and there must not be runoff from the concrete washout operations or areas. Liquid and solid wastes must be disposed of properly and in compliance with the MPCA regulations. A sign must be installed adjacent to each washout facility to inform concrete equipment operators to utilize the proper facilities.

The following telephone numbers are provided for assistance to the contractors and are not necessarily comprehensive; it is the responsibility of the individual contractor to make sure of proper notification.

Poison Control (800) 222-1222

24 Hour Spill Emergency (800) 422-0798

WIDSETH SMITH NOLTING



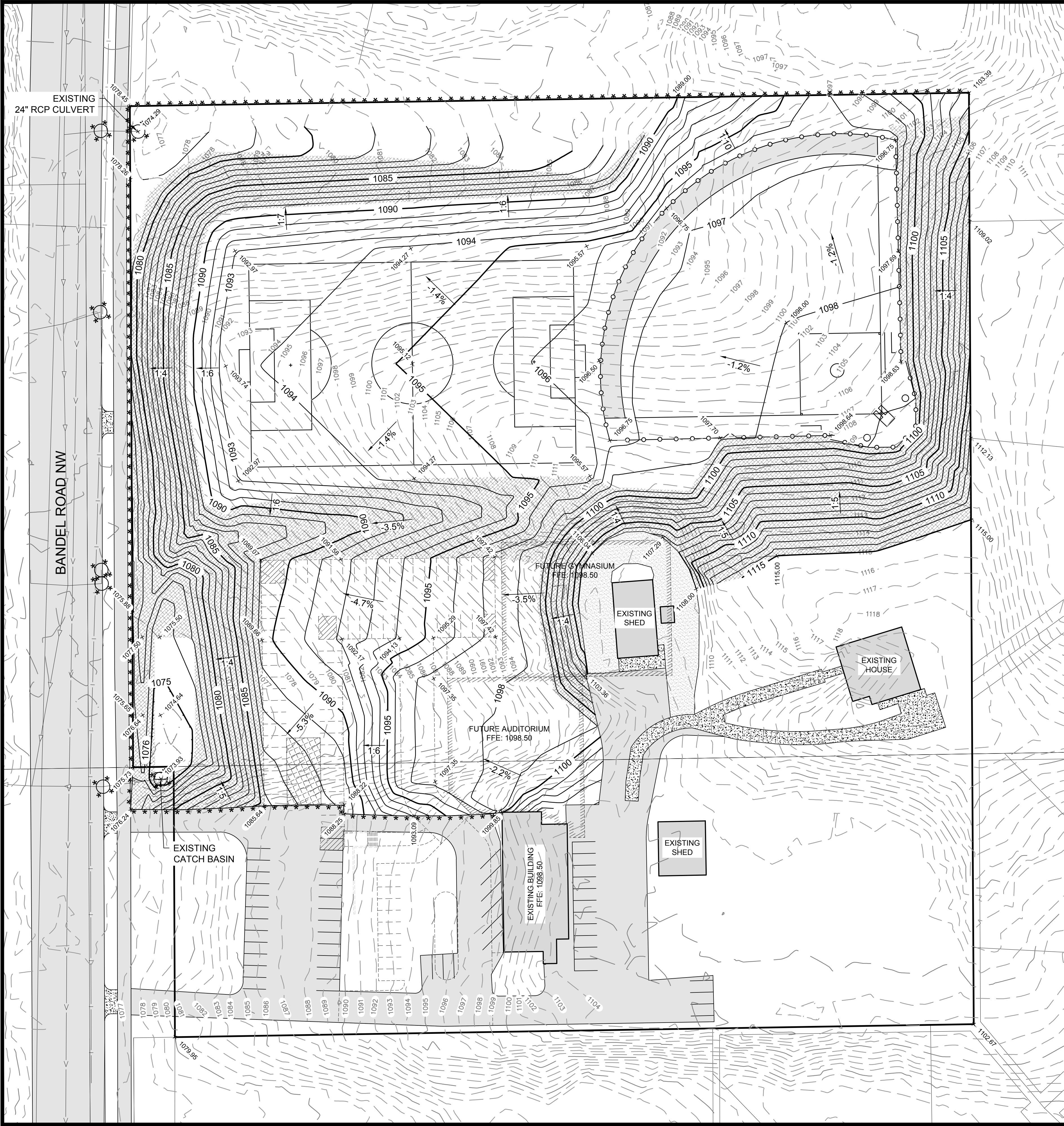
Engineering | Architecture | Surveying | Environmental

REVISIONS	DESCRIPTION	DATE	BY

DATE:	MARCH 2018
SCALE:	AS SHOWN
DRAWN BY:	DJM
CHECKED BY:	CMB
JOB NUMBER:	100560037.000

MIDWEST BIBLE BAPTIST CHURCH SITE & GRADING PLAN
MIDWEST BIBLE BAPTIST CHURCH
ROCHESTER, MINNESOTA
SWPPP NARRATIVE AND EROSION CONTROL PLAN

SHEET NO.
C1.0



STORM WATER POLLUTION PREVENTION PLAN NOTES:

Construction Practices to Minimize Storm Water Contamination

- Stockpiles should be constructed away from slopes and natural drainage ways.
- Collected solid waste, sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris and other wastes must be disposed of properly and must comply with MPCA disposal requirements.
- No construction materials can be buried on site.
- Licensed sanitary waste management handler must dispose of sanitary waste.
- Fertilizers must be stored in covered locations.
- Restricted access to chemical storage areas must be provided to prevent vandalism.
- All chemicals must be stored in locked containers when not in use.
- Oil, gasoline, paint and any hazardous substances must be properly stored, including secondary containment, to prevent spills, leaks or other discharge.
- Storage and disposal of hazardous waste must be in compliance with MPCA regulations.
- Vehicles must be monitored for leaks and preventative maintenance scheduled.
- Spill kits must be available during equipment fueling and maintenance operations.
- External washing of trucks and other construction vehicles must be limited to a defined area of the site. Runoff must be contained and waste properly disposed of. No engine degreasing is allowed on site.
- Asphalt substances must be applied according to manufacturers recommendations.
- Spray guns must be cleaned on removable surfaces such as tarpaulins.
- Contractor/Erosion Control Supervisor must make a spill response plan before the application of any chemical that may be harmful to the environment.
- All spills must be reported immediately. Spill cleanup materials must be available on site. Material shall include but not limited to brooms, mops, rags, gloves, absorbent material, sand plastic and metal containers. Spills that reach storm water conveyance systems connected to a Water of the State must be immediately reported to the MPCA State Duty Officer.
- Contractor must control weeds on the entire project site.
- Form release oil must be applied over a pallet covered with absorbent material to collect excess fluid. The absorbent material shall be replaced when saturated.
- Dust control must be provided as conditions warrant.
- If this project is not stabilized before winter conditions stop construction activities, it shall be the contractor's responsibility to ensure sediment does not reach a water of the state. A written plan of this activity shall be presented to the engineer 1 month before expected project shut down for the season occurs. This plan shall include but not be limited to:
 - date of proposed bmp employment
 - duration of bmp's employed
 - schedule of subsequent bmp's employed

Payment

Cost for permanent and temporary erosion and sediment control measures shown on the plans will be paid on a lump sum basis. The costs to maintain and remove these devices shall be incidental to the contract. The cost for temporary seeding, soil stabilization, or any additional temporary erosion and sediment control devices shall be incidental to the contract. All costs for documentation required by the Permit shall be incidental to other items unless a specific bid item is established.

Contacts

Agency	Permit	Name	Phone Number
MPCA	NPDES	Roberta German	507-206-2629
MPCA	NPDES	David Bodovinitz	507-206-2654
SWPPP Design	WSN	Joey Weiss	507-206-2129

EC Supervisor

Amendments to the SWPPP:

Date:

- 1.
- 2.
- 3.
- 4.
- 5.

PROPOSED FEATURES LEGEND

	DENOTES PROPERTY BOUNDARY
	DENOTES PROPOSED CONTOUR ANNOTATION
	DENOTES PROPOSED GUTTER OR FINISH ELEVATION (UNLESS OTHERWISE NOTED)
	DENOTES PROPOSED DRAINAGE ARROW
	DENOTES PROPOSED SILT FENCE
	DENOTES TEMPORARY ROCK CONSTRUCTION ENTRANCE
	DENOTES PROPOSED EROSION CONTROL BLANKET - CAT 3
	DENOTES PROPOSED INLET PROTECTION

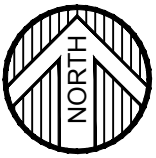


HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Craig N. Bolton
CRAIG N. BOLTON DATE: 3/28/18 LIC. NO. 44228

DATE	REVISIONS DESCRIPTION	BY

DATE: MARCH 2018	AS SHOWN
SCALE: D.M.	C.N.
DRAWN BY: C.N.	C.N.
CHECKED BY: C.N.	C.N.
JOB NUMBER: 100560037.000	

MIDWEST BIBLE BAPTIST CHURCH SITE & GRADING PLAN
MIDWEST BIBLE BAPTIST CHURCH
ROCHESTER, MINNESOTA
SWPPP NARRATIVE AND EROSION CONTROL PLAN



ZONING CALCULATIONS

PARCEL ID: 740913072386 & 740940272388
ZONING DISTRICT: R-1: MIXED SINGLE FAMILY RES
PROPOSED USAGE: CHURCH
TOTAL LOT AREA: 303,333 SF & 117,927 SF
TOTAL LOT ACREAGE: 6.96 Ac & 2.71 Ac = 9.67 Ac

FLOOR AREA RATIO: 0.25 (TYPE 1)
MAX. ALLOWABLE FLOOR AREA: 105,315 SF
TOTAL PROPOSED FLOOR AREA: 54,050 SF

SETBACKS:
FRONT YARD: 40 FT
SIDE YARD: 40 FT
SUM OF SIDE YARDS: 40 FT
REAR YARD: 40 FT

LANDSCAPE AREA: 40%
MIN. LANDSCAPE AREA: 168,504 SF
PROPOSED LANDSCAPE AREA: 313,500 SF

MIN. LOT SIZE: NONE
MAX. PERMITTED HEIGHT: 35 FT
EXTERIOR LIGHTING: A
SIGN REGULATIONS: A
EXTERIOR STORAGE: T
BUFFERYARD INDICATOR: III

CUT	FILL
24,925 CU. YD.	22,581 CU. YD.
TOTAL LOT AREA	9.67 ACRES
TOTAL DISTURBED AREA	6.00 ACRES
TOTAL INCREASE IN IMPERVIOUS	0.00 ACRES

PROPOSED FEATURES LEGEND

	DENOTES PROPERTY BOUNDARY
	DENOTES PROPOSED CONTOUR ANNOTATION
	DENOTES PROPOSED GUTTER OR FINISH ELEVATION (UNLESS OTHERWISE NOTED)
	DENOTES PROPOSED DRAINAGE ARROW
	DENOTES PROPOSED SILT FENCE
	DENOTES TEMPORARY ROCK CONSTRUCTION ENTRANCE
	DENOTES PROPOSED EROSION CONTROL BLANKET - CAT 3
	DENOTES PROPOSED INLET PROTECTION

SITE ADDRESS: 5930 BANDEL ROAD NW
ROCHESTER, MN 55901

PROPOSER: MIDWEST BAPTIST CHURCH
5930 BANDEL ROAD NW
ROCHESTER, MN 55901
CONTACT: PASTOR CALEB HANSON
EMAIL: CALEBHANSON2004@GMAIL.COM
PH: (507) 259-4106

ARCHITECT: AB SYSTEMS INC.
209 WOOD LAKE DRIVE SE
ROCHESTER, MN 55904
CONTACT: PETE SCHULLER
PH: (507) 251-6890

CIVIL ENGINEER: WIDSETH SMITH NOLTING
3777 40TH AVE NW, SUITE 200
ROCHESTER, MN 55901
CONTACT: CRAIG BRITTON
EMAIL: CRAIG.BRITTON@WSN.US.COM
PH: (507) 206-2125

SWPPP, GRADING, & GENERAL NOTES:

- AN NPDES PERMIT SHALL BE APPLIED FOR BY THE OWNER AND CONTRACTOR IF DISTURBED AREA EXCEEDS 1 ACRE. AN NPDES PERMIT SHALL BE APPLIED FOR ON THIS PROJECT.
- ALL EROSION CONTROL AND SILTATION CONTROL SHALL COMPLY WITH THE SITE'S SWPPP, THE MINNESOTA POLLUTION CONTROL AGENCY (MPCA) STORMWATER MANUAL (CURRENT EDITION) AND THE REGULATIONS OF THE CITY OF ROCHESTER AND OLMTST COUNTY.
- SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP'S), WHICH PREVENT SEDIMENT FROM ENTERING A WATER OF THE STATE, SHALL BE ESTABLISHED BEFORE LAND DISTURBING OPERATIONS BEGIN AND SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION HAS BEEN ESTABLISHED.
SILT FENCE - CITY OF ROCHESTER STANDARD PLATE NO. 7-01B
INLET PROTECTION - CITY OF ROCHESTER STANDARD PLATE NO. 7-05C
TEMPORARY ROCK CONSTRUCTION ENTRANCE - CITY OF ROCHESTER STANDARD PLATE NO. 7-06D
CONCRETE WASHOUT AREA - PER MPCA GUIDELINES
- TEMPORARY STABILIZATION - TOPSOIL STOCK PILES AND DISTURBED SOIL AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 7 DAYS WILL BE STABILIZED WITH TEMPORARY SEEDING AND MULCH NO LATER THAN 7 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEED SHALL BE RYE (GRAIN) APPLIED AT THE RATE OF 100 LBS PER ACRE. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH TWO (2) TONS PER ACRE OF STRAW. THE STRAW MULCH IS TO BE TACKED INTO PLACE BY A DISK WITH THE BLADES SET NEARLY STRAIGHT.
- ALL DISTURBED PVIOUS AREAS SHALL BE FERTILIZED (TYPE 3, 22-5-10), SEED (MNDOT 25-141) AND MNDOT CAT 3 EROSION CONTROL BLANKET PLACED UNLESS OTHERWISE NOTED OR SHOWN IN PLANS. ALL EXPOSED SOIL AREAS MUST BE STABILIZED AS SOON AS POSSIBLE TO LIMIT SOIL EROSION BUT IN NO CASE LATER THAN SEVEN (7) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. SEEDING SHALL BE PER THE MNDOT SEEDING MANUAL.
- THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE DITCH OR SWALE THAT DRAINS ANY PORTION OF THE CONSTRUCTION SITE, OR DIVERTS WATER AROUND THE SITE, MUST BE STABILIZED WITHIN 200 LINEAL FEET FROM THE PROPERTY EDGE, OR FROM THE POINT OF DISCHARGE INTO ANY SURFACE WATER WITHIN 24 HOURS AFTER CONNECTING TO A SURFACE WATER.
- PIPE OUTLETS MUST BE PROVIDED WITH TEMPORARY OR PERMANENT ENERGY DISSIPATION WITHIN 24 HOURS AFTER CONNECTION TO A SURFACE WATER OR OUTLET.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SEDIMENT DOES NOT LEAVE THIS SITE. IT IS REQUIRED THAT THE CONTRACTOR INSTALL A STABILIZED VEHICLE EXIT TO KEEP SEDIMENT TRACKING TO A MINIMUM. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY UNTIL ACCEPTANCE OF THE WORK BY THE OWNERS.
- ANY DEPOSITING OF SEDIMENT OR DEBRIS ON NEW OR EXISTING PAVEMENT, OR IN EXISTING STORM SEWERS SHALL BE REMOVED AFTER EACH RAIN AND AFFECTED AREAS CLEANED. ANY TRACKING OF SEDIMENT OR DEBRIS FROM CONSTRUCTION TRAFFIC ONTO PUBLIC RIGHT OF WAY SHALL BE REMOVED BY THE END OF EACH WORK DAY AND AFFECTED AREAS CLEANED.
- THE CONTRACTOR SHALL INSPECT THE CONSTRUCTION SITE ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS AFTER RAIN EVENTS FOR DAMAGE TO EROSION CONTROL DEVICES. IF DAMAGED OR INEFFECTIVE EROSION CONTROL DEVICES ARE DISCOVERED, THEY SHALL BE REPAIRED OR REPLACED. THE CONTRACTOR SHALL MAINTAIN INSPECTION RECORDS, WHICH INCLUDE DATE AND TIME OF INSPECTIONS, DATES OF RAINFALL EVENTS, FINDINGS OF INSPECTIONS, CORRECTIVE ACTIONS TAKEN (INCLUDING DATES AND TIMES), AND DOCUMENTATION OF ANY CHANGES TO THE TEMPORARY OR PERMANENT EROSION CONTROL PLANS MADE DURING CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL SITE CLEARING, GRUBBING AND REMOVALS. REMOVAL OF PAVEMENT AND MISCELLANEOUS STRUCTURES SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF MNDOT 2104.
- ALL PROPOSED ELEVATIONS ARE TO TOP OF PAVING, GUTTER, OR FINISHED GRADE UNLESS NOTED OTHERWISE. PROPOSED ELEVATIONS ARE INTENDED TO PROVIDE POSITIVE DRAINAGE TOWARDS CATCH BASINS AND/OR OUTLETS. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE REQUIRED ELEVATIONS, WHICH WILL PROMOTE POSITIVE DRAINAGE THROUGHOUT THE PROJECT SITE.
- THE SITE HAS NOT NECESSARILY BEEN DESIGNED TO BALANCE THE ON-SITE MATERIALS. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EARTHWORK QUANTITY ON THIS SITE. EXCESS MATERIAL, IF ANY SHALL BE DISPOSED OF OFF-SITE. THE CONTRACTOR SHALL IMPORT SUITABLE MATERIAL AS NEEDED.
- THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE ENGINEERING DEPARTMENTS AND UTILITY COMPANIES 72 HOURS PRIOR TO CONSTRUCTION. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO AVOID DAMAGE TO EXISTING UTILITIES.
- SOME SLOPES ON SITE EXCEED 4:1. SLOPES STEEPER THAN 4:1 WILL BE STABLE FROM LAND SLIDING AND SURFACE EROSION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION. SHALL UTILITY RELOCATIONS BE REQUIRED, THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF ALL UNDERGROUND UTILITIES WITH THE RESPECTIVE UTILITY OWNERS.
- SAFETY NOTICE TO CONTRACTORS: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS ON THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE ENGINEER OR THE DEVELOPER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES IN, ON OR NEAR THE CONSTRUCTION SITE.



ALL UNDERGROUND AND OVERHEAD UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THERE MAY BE ADDITIONAL UNDERGROUND AND OVERHEAD UTILITIES NOT SHOWN ON THE PLAN THAT MAY BE REQUIRED TO BE REMOVED. IT IS THE CONTRACTORS RESPONSIBILITY TO REQUEST A GOPHER STATE ONE CALL PRIOR TO THE START OF ANY CONSTRUCTION AND COORDINATE ALL WORK WITH THE RESPECTIVE UTILITY COMPANIES.

WIDSETH SMITH NOLTING

Engineering | Architecture | Surveying | Environmental



HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

Craig Britton
CRAIG BRITTON DATE: 03/28/2018 LIC. NO. 44228

BY	REVISIONS DESCRIPTION	DATE	REV#

DATE:	MARCH 2018
SCALE:	AS SHOWN
DRAWN BY:	BBB
CHECKED BY:	CNB
JOB NUMBER:	1005R0037.000

MIDWEST BIBLE BAPTIST CHURCH SITE & GRADING PLAN

MIDWEST BIBLE BAPTIST CHURCH

ROCHESTER, MN

SITE & GRADING PLAN

SHEET NO.

C2.0

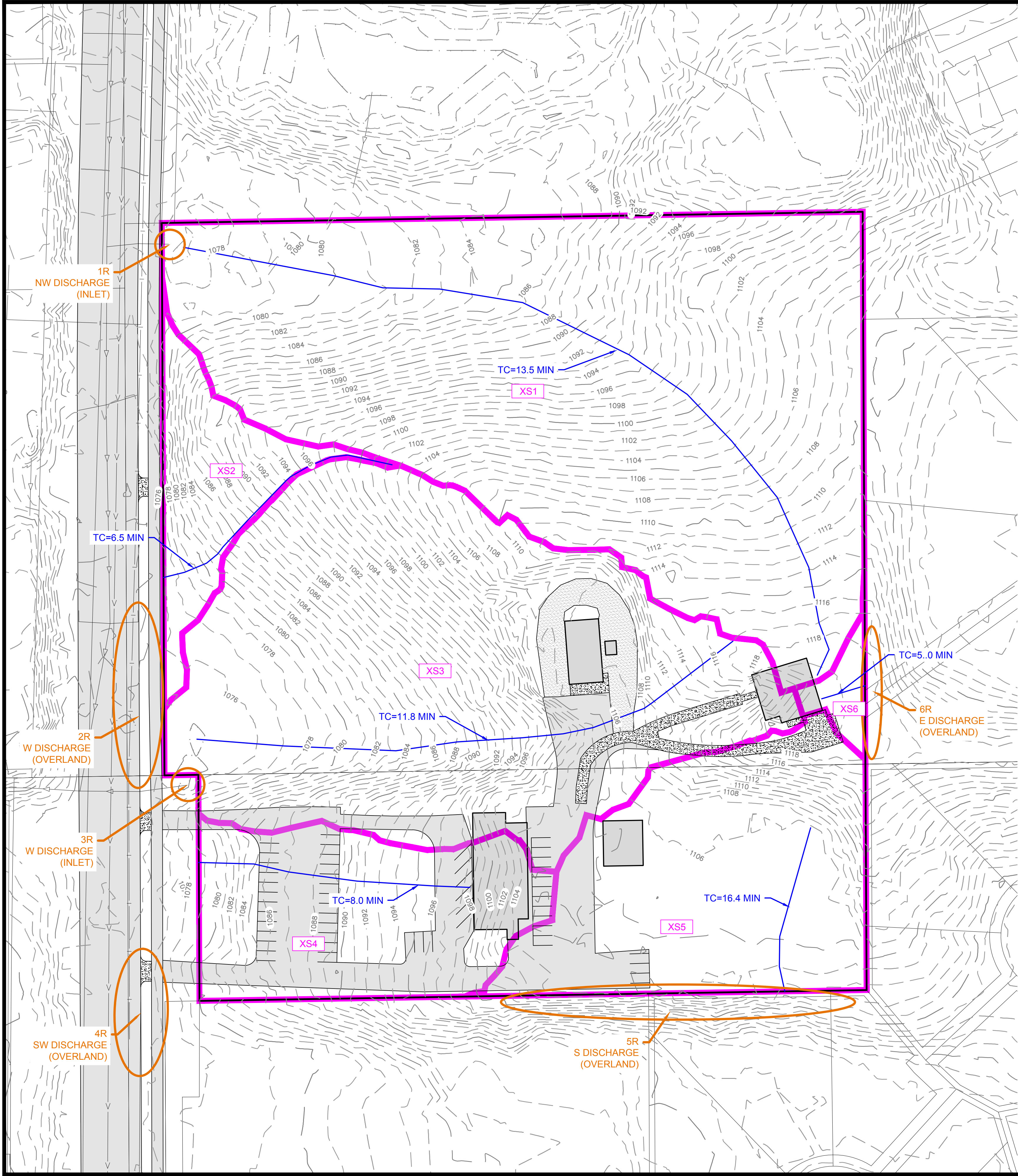
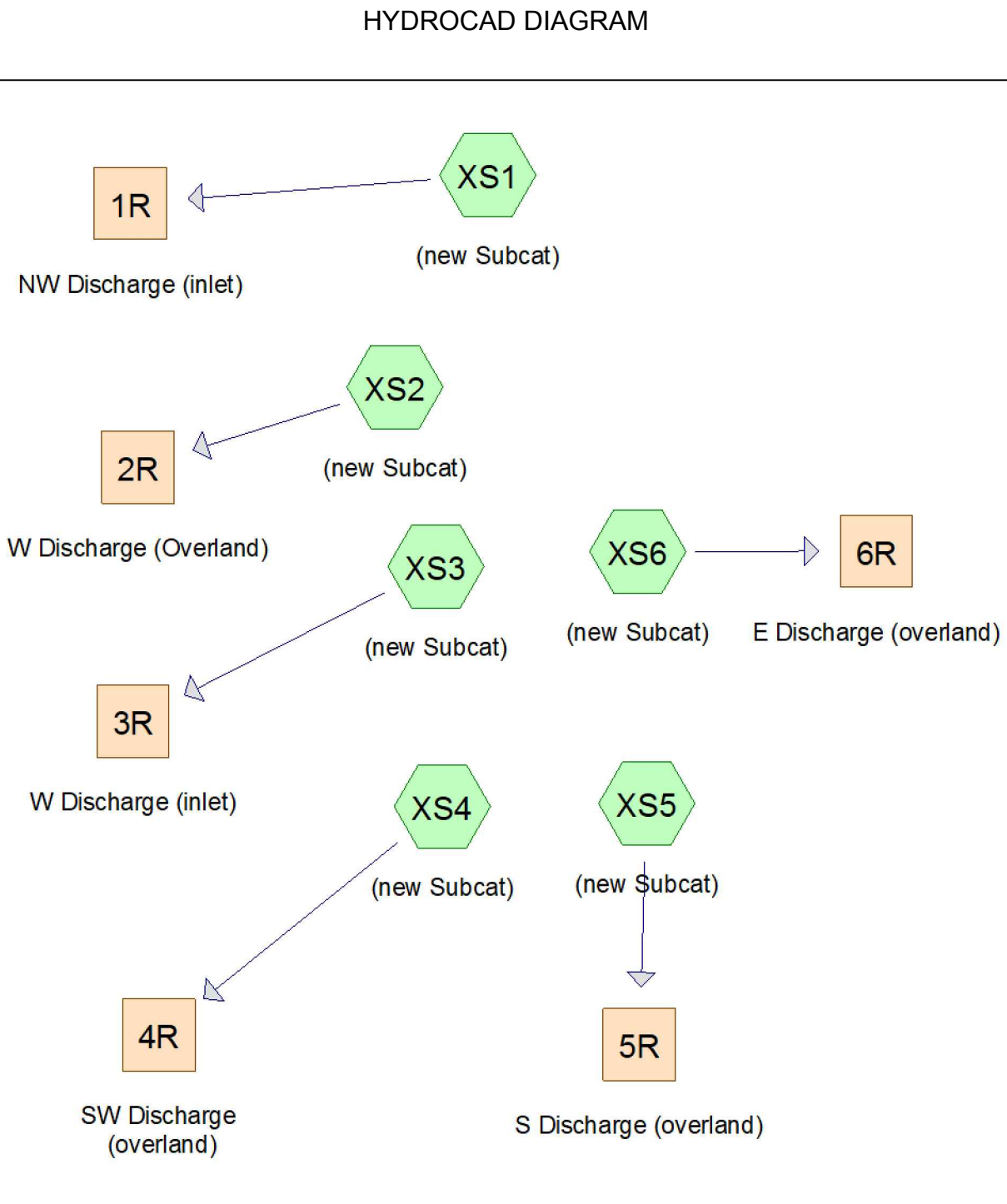


TABLE 1.2.A - HYDROLOGIC SUMMARY - OFF SITE RUN OFF

OFF SITE DISCHARGE	AREA (ac)		CN/C VALUES		2 YEAR (cfs)		10 YEAR (cfs)		100 YEAR (cfs)	
	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
1R	3.87	3.23	69	69	2.95	1.86	8.16	5.28	22.10	14.57
2R	0.45	0.68	69	61	0.47	0.16	1.25	0.74	3.30	2.57
3R	2.97	3.37	74	67	3.58	1.71	8.34	5.30	20.23	15.29
4R	0.96	0.96	82	82	2.12	2.12	4.12	4.12	8.65	8.65
5R	1.34	1.34	69	69	0.91	0.91	2.54	2.54	6.95	6.95
6R	0.08	0.08	67	67	0.08	0.08	0.22	0.22	0.61	0.61
TOTAL	9.671	9.671	72	69	10.110	6.840	24.630	18.200	61.840	48.640

TABLE 1.2.B - VOLUME DISCHARGE SUMMARY

ON SITE DISCHARGE	AREA (ac)		CN/C VALUES		2 YEAR (ac-ft)		10 YEAR (ac-ft)		100 YEAR (ac-ft)	
	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
1R	3.871	3.234	69.000	69.000	0.206	0.172	0.510	0.426	1.351	1.129
2R	0.451	0.684	69.000	61.000	0.024	0.020	0.059	0.061	0.157	0.188
3R	2.968	3.372	74.000	67.000	0.215	0.156	0.482	0.406	1.176	0.114
4R	0.960	0.960	82.000	82.000	0.107	0.107	0.209	0.209	0.454	0.454
5R	1.337	1.337	69.000	69.000	0.071	0.071	0.176	0.176	0.467	0.467
6R	0.083	0.083	67.000	67.000	0.004	0.004	0.010	0.010	0.027	0.027
TOTAL	9.671	9.671	72.000	69.000	0.627	0.530	1.446	1.288	3.632	2.379



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Craig Bratton
DATE: 03/28/2018 LIC. NO. 44228

DATE	REVISION DESCRIPTION	BY

DATE:	MARCH 2018
SCALE:	AS SHOWN
DRAWN BY:	JTW
CHECKED BY:	CNB
JOB NUMBER:	1005R0037.000

MIDWEST BIBLE BAPTIST CHURCH SITE & GRADING PLAN
MIDWEST BIBLE BAPTIST CHURCH
ROCHESTER, MN
EXISTING DRAINAGE CONDITIONS

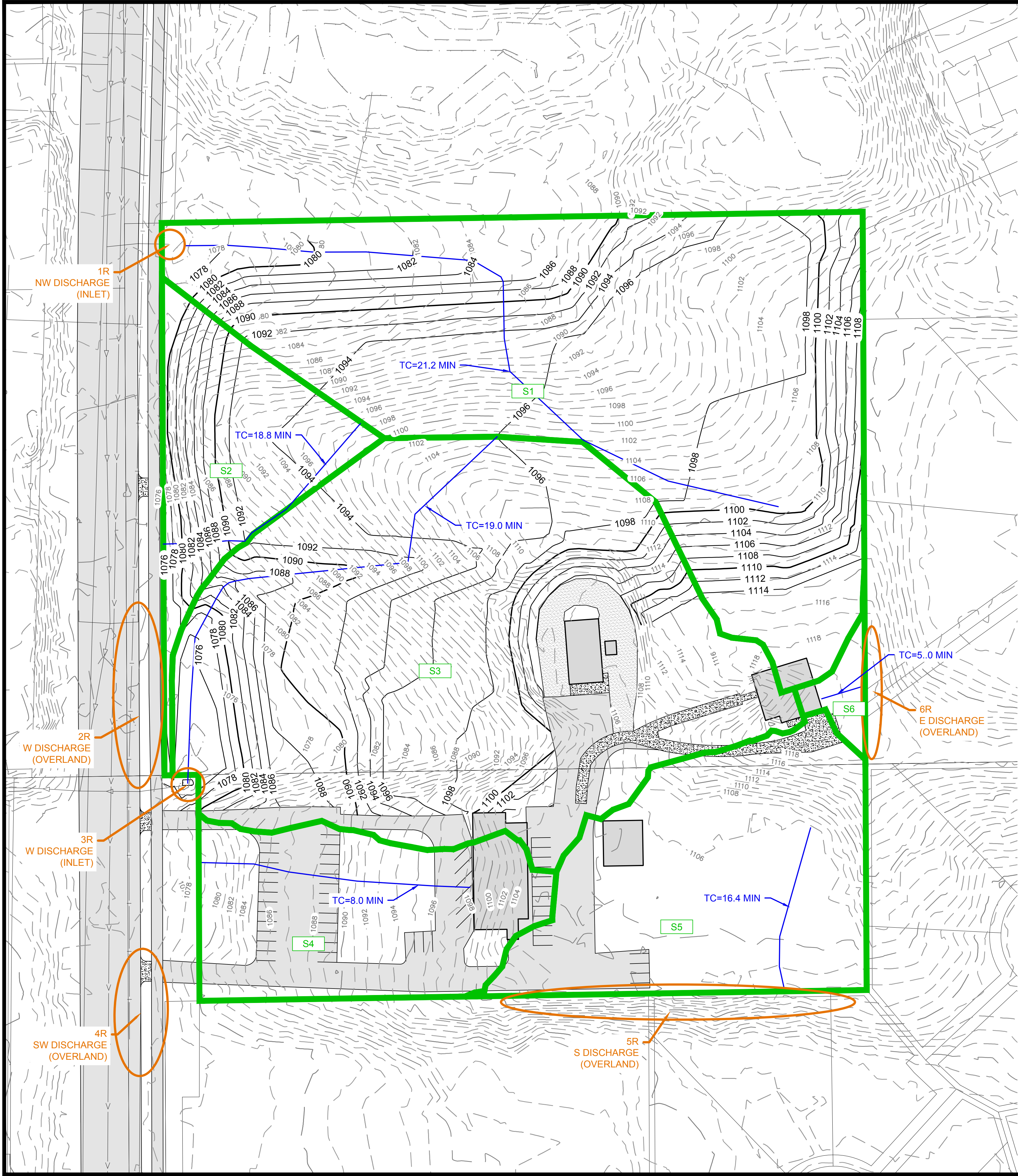
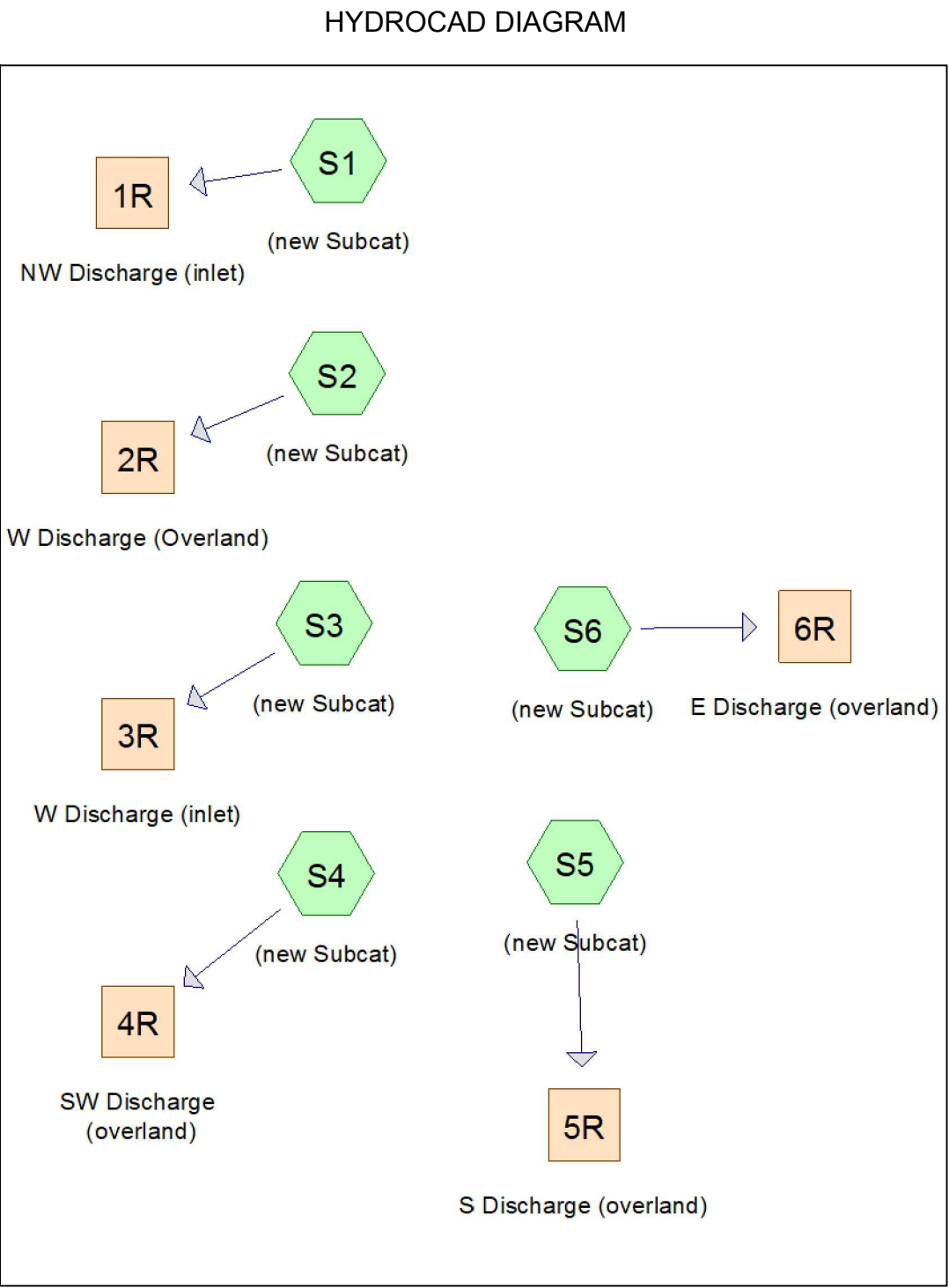


TABLE 1.2.A - HYDROLOGIC SUMMARY - OFF SITE RUN OFF

OFF SITE DISCHARGE	AREA (ac)		CN/C VALUES		2 YEAR (cfs)		10 YEAR (cfs)		100 YEAR (cfs)	
	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
1R	3.87	3.23	69	69	2.95	1.86	8.16	5.28	22.10	14.57
2R	0.45	0.68	69	61	0.47	0.16	1.25	0.74	3.30	2.57
3R	2.97	3.37	74	67	3.58	1.71	8.34	5.30	20.23	15.29
4R	0.96	0.96	82	82	2.12	2.12	4.12	4.12	8.65	8.65
5R	1.34	1.34	69	69	0.91	0.91	2.54	2.54	6.95	6.95
6R	0.08	0.08	67	67	0.08	0.08	0.22	0.22	0.61	0.61
TOTAL	9.671	9.671	72	69	10.110	6.840	24.630	18.200	61.840	48.640

TABLE 1.2.B - VOLUME DISCHARGE SUMMARY

ON SITE DISCHARGE	AREA (ac)		CN/C VALUES		2 YEAR (ac-ft)		10 YEAR (ac-ft)		100 YEAR (ac-ft)	
	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED	EXISTING	PROPOSED
1R	3.871	3.234	69.000	69.000	0.206	0.172	0.510	0.426	1.351	1.129
2R	0.451	0.684	69.000	61.000	0.024	0.020	0.059	0.061	0.157	0.188
3R	2.968	3.372	74.000	67.000	0.215	0.156	0.482	0.406	1.176	0.114
4R	0.960	0.960	82.000	82.000	0.107	0.107	0.209	0.209	0.454	0.454
5R	1.337	1.337	69.000	69.000	0.071	0.071	0.176	0.176	0.467	0.467
6R	0.083	0.083	67.000	67.000	0.004	0.004	0.010	0.010	0.027	0.027
TOTAL	9.671	9.671	72.000	69.000	0.627	0.530	1.446	1.288	3.632	2.379



DATE	REVISION DESCRIPTION	BY

DATE: MARCH 2018	AS SHOWN	JTW	CNB
SCALE:	DRAWN BY:	CHECKED BY:	JOB NUMBER:
			1005R0037.000